

Listing of Claims

1. (Currently Amended) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:
- a cylindrical barrel;
 - a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension ~~exhibiting no~~ wherein no two adjacent transverse cross-sections of said rearwardly facing extension exhibit discontinuity in its transverse cross-sections area when compared one to another along [a] the portion of said extension adapted to be gripped by a coupling mechanism; and
 - a discharge tip in fluid communication with a forward end of said cylindrical barrel.
2. (Previously Amended) The syringe of claim 1 wherein said rearwardly facing coupling element is knurled.
3. (Original) The syringe of claim 1 further comprising a conical front wall disposed between said cylindrical barrel and said discharge tip.

4. (Previously Amended) The syringe of claim 1 further comprising syringe mating sections positioned in a plane perpendicular to the longitudinal axis of the cylindrical barrel, wherein said syringe mating sections facilitate mounting of said syringe to an injector.

5. (Original) The syringe of claim 4 wherein said syringe mating sections are arranged so as to align with mating sections disposed on said injector.

6. (Original) The syringe of claim 5 wherein said syringe mating sections include a radially outwardly extending annular flange.

7. (Original) The syringe of claim 1 wherein said rearwardly facing coupling element includes an interior cavity.

8. (Currently Amended) An injector for injecting fluids from a syringe into an animal subject, comprising;

a housing;

a plunger drive ram bidirectionally movable along an axis and mounted within said housing;

a motor drivingly coupled to said drive ram to selectively advance and retract said drive ram along said axis into and out of said housing;

a syringe for mounting to said injector comprising a cylindrical barrel, a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension ~~exhibiting no~~ wherein no two adjacent transverse cross-sections of said rearwardly facing extension exhibit discontinuity in its transverse cross-sections area when compared one to another along [a] the portion of said extension adapted to be gripped by a coupling mechanism, and a discharge tip in fluid communication with said cylindrical barrel; and

a movable face plate used to position a syringe relative to said injector housing to permit said drive ram to engage and move said plunger within said syringe.

9. (Previously Amended) The injector of claim 8 further comprising injector mating sections, said syringe further comprising syringe mating sections positioned in a plane perpendicular to the axis of the body of the syringe and arranged so as to align with the injector mating sections.

10. (Original) The injector of claim 8, wherein said face plate further comprises a rotatable lever used for translatory motion of said face plate, said lever movable between locked and unlocked positions, wherein motion of said lever to said locked position causes attachment of a syringe to said injector housing by translating said rearward facing coupling element of said syringe plunger against a coupling mechanism of said plunger drive ram to facilitate cooperative movement of said syringe plunger and said plunger drive ram to inject fluids into said animal subject.

11. (Original) The injector of claim 10 wherein movement of said rotatable lever from said locked to said unlocked position results in translatory movement of said face plate along a plane perpendicular to the axis of said plunger drive ram to disengage said rearward facing coupling element of said syringe plunger from a coupling mechanism of said plunger drive ram.